Francis M. Seely

Permanent Location: Smithtown, New York **School Location:** Boston, MA

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Web Portfolio: https://seelyfrank.github.io/webportfolio/

EDUCATION

Boston University, College of Computing and Data Sciences

Boston, MA

Bachelor of Science in Data Science; Minor in Computer Science

Expected May 2026

3.96 Major GPA | 3.70 Overall GPA

Relevant coursework:

<u>Graduate Electives:</u> Applied Machine Learning, Natural Language Processing

<u>Standard Coursework:</u> Algorithms for Data Science, Database Engineering and Mechanics, Programming for Data Science, Statistics and Probability Theory

SKILLS

Proficient: Python, SQL, Java | Familiar: C, Rust, JavaScript, HTML, CSS

Tools: Git, Power BI, Excel, Jupyter, VSCode

Other: Data Analytics, Machine Learning, APIs, OOP, collaboration, problem-solving, presentations, dashboards

PROJECTS

Ethereum Transaction Fraud Detection (work in progress)

Feb 2025

- Developed an Ethereum transaction monitoring system using Node.js, Ethereum's Alchemy API, and MySQL to fetch, process, and store one million transaction data in real time, enabling efficient fraud detection and analysis.
- Conducted an exploratory data analysis using SQL queries and Pandas on transactions to determine transaction outliers and suspicious trends between various users
- Currently designing a machine learning-based system for transactions by engineering behavioral and transactional features, applying anomaly detection techniques, and analyzing sender-recipient activity patterns to identify suspicious transactions.

Degree of Separation Simulator

May 2024

- Developed a graph analysis tool to read various graph datasets, directed and undirected, and compute shortest paths using BFS (Breadth-First-Search).
- Used Stanford's extensive datasets, like email-Eu-core and epinions, to emulate real-world scenarios and confirm the connectivity of graph vertices.
- Employed Rust's performance benefits to handle large-scale graph data efficiently.

Airport Flight Delay Exploratory Data Analysis

Nov 2023

- Utilized Python to explore and model a flight log dataset to determine which factors contribute to the highest chance of a flight delay.
- Discovered that flying Southwest Airlines in the evening leads to the highest chance of having a flight delay through EDA.

AWARDS

Winner of the College of General Studies Capstone Policy Paper

Oct 2024

• Collaborated in a team-oriented environment with six peers to create a 62-page policy proposal for harm reduction efforts in Newark, New Jersey, and gave a two-hour oral defense before three judges.

Dean's List | 4 terms

EXTRACURRICULAR EXPERIENCE

BU Artificial Intelligence Society

Jan 2025

Provides a diverse space for students with a passion for machine learning and artificial intelligence news and applications. Host weekly lectures to share knowledge of common AI topics, such as creating tokenizers and training LLMs.

BU Blockchain Club Nov 2023

An inclusive community committed to advancing blockchain technology through research, development, and innovation. Hosts hackathons, workshops, and other collaborative events to promote the development of an empowering and motivated blockchain community.